1.3771

5/263/62/000/023/004/005 E194/E155

9.4172

AUTHORS:

Vavrouch, Dusan, and Dvorak, Jiří

TITLE:

A pneumatic infrared radiation receiver

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, Izmeritel'naya

tekhnika, no.23, 1962, 63, abstract 32.23.397.

(Czech. patent cl. 421, 4/13, 42h, 20/01, no.99447,

April 15, 1961)

The patented pneumatic receiver is based on the schematic circuit of an American receiver. It consists of a chamber, one wall of which is made of a material transparent to infrared radiation. Inside the chamber an absorbing element periodically receives infrared radiation through a shutter and is thereby heated, which raises the pressure of the gas in the The pressure change is picked up by an elastic reflecting diaphragm. The surface of the diaphragm is fully sealed and it is a component of an optical system consisting of a meniscus lens, a plane grating with transparent and opaque bands of equal width, a condenser, a lamp, and a photocell with mirror. If the diaphragm is flat the upper half of the grating illuminated Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859110007-9" A pneumatic infrared radiation ...

\$/263/62/000/023/004/005 E194/E155

by the lamp is reflected from the diaphragm and gives a reflection in the lower half of the grating. The transparent bands then coincide with the opaque, and little light reaches the photocell from the mirror and the current in the circuit is low. When the diaphragm is deformed by pressure, it becomes convex or concave and more or less radiation reaches the photocell, giving more or less current. The current is then amplified and recorded in the usual way. The chamber is connected with the internal space by a capillary so that rapid changes in the pressure do not alter the shape of the diaphragm. Obviously the backing surface to which the membrane is fixed should be very well finished and accurate so as not to introduce errors into the light distribution. Hitherto the backing has consisted of hardened carbon steel, which required prolonged heat-treatment, accurate grinding and polishing and was, moreover, rapidly corroded during the process of degreasing in an ultrasonic field. This defect affected the performance of the In the device patented the backing surface is made of easily worked minerals, whose surfaces do not corrode.

Abstractor's note: Complete translation.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859110007-9"

VAVROUCH, L.

VAVROUCH, I. Swiss project of the Rhone-Rhine waterway. p. 414.

Vol. 5, No. 11, Nov. 1955 VODNI HCSPODARSTVI TECHNOLOGY

So: East Europeon Accessions, Vol. 5, No. 5, May 1956

APPROVED FOR RELEASE: 08/31/2001 OUCHGIA-BDP86:009130001859110007-9" KLAPETEK, J.; technicka spaluprice:

An improved paste for attaching EEG electrodes. Cesk. neurol. 26 no.1:12-17 Ja 163.

1. Neurologicka klinika lekarske fakulty PU v Olomouci, prednosta prof. dr J. Hrbek, DrSc. (ELECTROENCEPAHLOGRAPHY) (EQUIPMENT AND SUPPLIES)

VAVROUSEK, J.

Ten years of milk and egg preservation through drying and condensation. p. 246. Vol. 6, no. 5, 1955. PRUMYSL POTRAVIN. Praha.

Source: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956.

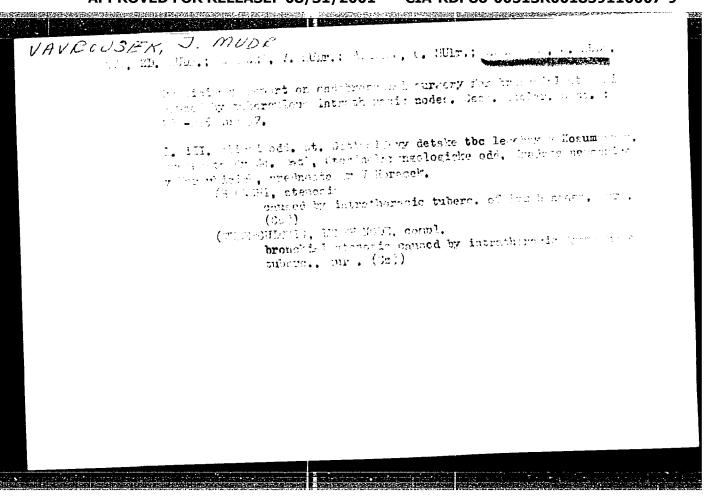
CIA-RDP86-00513R001859110007-9" APPROVED FOR RELEASE: 08/31/2001

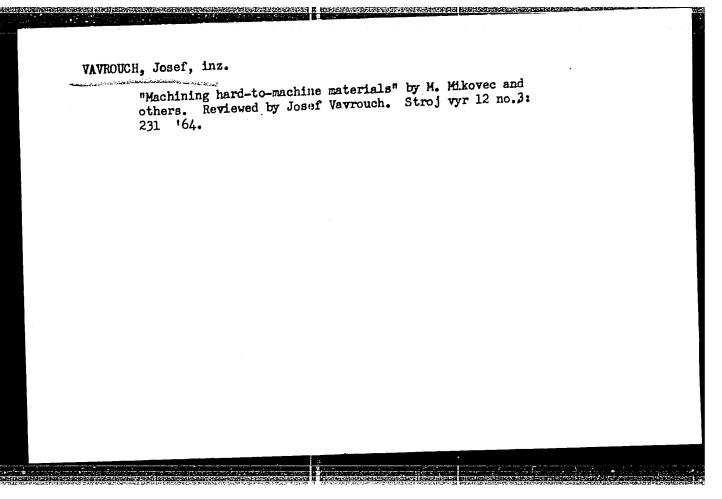
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VAVROUSEK, J. Experience of the dairy industry with collecting, treating, and transporting milk. p. 426

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So: East European Accession, Vol. 6, No. 2, 1957





VAVROUSEK, Josef, dr.

Some factors influencing the fulfillment of the plan in poultry and egg processing plants. Prum potravin 14 no. 6:293-296 Je '63.

1. Prazske drubezarske zavody, n.p., Libus u Prahy.

VAUROUSEK, JOZEF

POLAND/Chemical Technology. Chemical Products and Their Application.

Food Industry.

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 16146.

Author : Vavrousek Jozef

Inst

Title : Production of Egg Powder in Czechoslovakia

Orig Pub: Przegl. jajcz.-drob., 1956, 4, No 10, 15-16.

Abstract: No abstract.

: 1/1

VAVROUSEK, J.

New method of production and utilization of whey. (To be contd.) p. 278. Vol. 6, no. 6. 1955. PHUMYSL POTRAVIN. Praha.

Source: East European Accessions List (EEAL), LC, Voll 5, No. 3. March 1956.

VAVROUSEK, J.

New method of production and utilization of whey. (Conclusion) p. 320.

Vol. 6, no. 7, 1955.

PRUMYSL POTRAVIN. Praha.

SCURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956

NOTES THOUSE NEED IN CONTROL MANAGEMENT DESCRIPTION OF THE PROPERTY OF THE PRO h-40 Czechoslovakia COUNTRY CATEGORY ABS. JOUR. : RZKhim., No. 1959, No. 73029 : Vavrousek, J. AUTHOR INST. : Some Problems of Technical Advances and Prime TITLE Cost Decrease in Drying and Condensing of Milk ORIG. PUB. : Prumysl potravin, 1958, 9, No 4, 178-181 : Within a few years it is anticipated to expand in Czechoslovakia the collecting and shipping of milk by tank trucks; increase the carrying capacity of the latter to 10 tons; increase the size of milk cans to 40-50 liters; lower the temperature of milk in shipment from 15° to 10-12° to 10-12°. put in effect automatic regulation of the pH of solutions used in milk-can washing machines; to replace pasteurizing of milk, prior to condensing, by "uperizatsiya". It is proposed to widen the range of dairy products by making dry milk with cocoa, condensed milk with sugar, with cocoa, and coffee, condensed cream with cocoa, coffee, etc. G. Titov. CARD: 1/1

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VAVROUSEK, J. Some principles concerning the wholesale purchase and distribution of milk and milk products. p. 523

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So: East European Accession, Vol. 6, No. 2, 1957

VAVROUSEK, J.; SULC, J.

Report on the Polish dairy and paultry industries. p. 414. PRUMYSL POTRAVIN. Praha.

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SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March. 1956.

VAVROUSEK, J.; SULC, J.

Experiences from the Polish dairy and poultry industries. p. 468. PRUMYSL POTRAVIN. Praha. Vol. 6, no. 9, 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956.

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	More important factors influencing the fulfillment of the factors influencing the fulfillment of the fulfill

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859110007-9"

KYBAL, Jan; VAVROUSKOVA-ZADINOVA, Kamila; technicky spolupracovala Marie Zahalkova.

Rye as a basic substrate in cultivation of Claviceps purpurea; active component of inoculated substance in field cultivation of ergot. Cesk. biol. 4 no.9:556-559 Oct 55.

PARIZEK, J.; NEMECEK, S.; VAVROVA, I.

Concealed presence of glicama in a 4-year-old child. Cesk.

THE REPORT OF THE PROPERTY OF

neurol. 26 no.5:301-303 S '63.

1. Neurochirurgicka klinika lekarske fakulty KU v Hradci Kralove,

prednosta prof. dr. R. Petr Detska klinika lekarske fakulty
KU v Hradci Kralove, prednosta prof. dr. J. Blecha.

(BRAIN NEOPLASMS) (GLIOBLASTOMA MULTIFORME)

(OPTIC NERVE) (CEREBELLAR NEOPLASMS)

(INTRACRANIAL PRESSURE) (BLINDNESS)

CHIYERNIE, Yam [Cernik, J.]; MISTH, Adolf [Mistr, Adolf]; VAVROVA, Yampalera [Vavrova, J.]; VAVRA, Milosh [Vavra, Milos]

Photographic properties of mozowethylantaceroocyanics dyes. Zhur. nauch. i prikl. Fot. 1 kin. 10 no.1:34-38 Ja-F *65. (MIRA 18:4)

1. Institut chistykh reaktivov, Erno, Chekhoslovakiya.

Varrava, L.

Role of tuberculosis in child mortality and morbidity. Pediat. listy.
Praha 7 no. 3:153-157 Mey-June 1952. (CLML 22:4)

1. Of the Institute of Social Medicine (Head--Prof. V. Prosek, M. D.)
of Charles University, Prague.

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Z/0C9/60/010/05/004/040 E112/E153

AUTHORS:

Vladimír Medonos and Marcela Vávrová

TITLE:

Polarographic Determination of Thiourea

PERIODICAL: Chemický Průmysl, Vol 10, 1960, Nr 5, pp 234-237

ABSTRACT: Thiourea is produced by passing carbon dioxide into a suspension of calcium cyanamide in a solution of ammonium sulphide. The authors present a quick polarographic method for its estimation in the rather complex reaction The conventional method of titration with silver nitrate is too cumbersome and the polarographic method offers advantages. The position of halfwave potentials, changes with the concentration of thiourea. A wave with best characteristics is obtained in a medium of 0.2 N-NaOH, the halfwave potential of which is about An alkaline medium is, however, not suitable for 0.3 V. the direct estimation of thiourea because colloidal sulphur is precipitated from the present hydrogen sulphide. Furthermore, maxima are formed which cannot be avoided, even by the addition of gelatine. The authors have developed a polarographic method using as reaction medium a IN sulphuric acid plus 3 gms of cadmium acetate per one litre, the latter compound effecting a complete

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Polarographic Determination of Thiourea

elimination of sulphide ions. Cyanamides, dicyandiamide, or urea, have no deleterious effect on the estimation of The authors give experimental details of the method. A current of a voltage between 0.2 and 0.5 V corresponding to the horizontal part of the polarographic wave of thiourea of concentration 2 x 10-3 to 6 x 10-3 N. is passed between the dropping mercury and calomel electrode. The amplitude of the ammeter is directly proportional to the concentration of thiourea and can be read from the calibration diagram. Results of analyses were evaluated by variant analyses of factorial experiments. Results are tabulated, giving mean squares, degree of freedom, variants and statistical significance. The most important factor affecting results was the concentration of thiourea in the analyzed sample.

Card 2/2

There are 4 figures, 2 tables and 13 references, of which 8 are Czech, 2 German, 1 Italian, 1 Soviet and 1 English.

ASSOCIATION: Vysoká škola chemicko-technologická, Praha (University of Chemical Technology, Prague)

SUBMITTED:

February 15, 1960

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859110007-9"

SKALICKY, J.; NOVOTNA, H. Techn. spoluprace: CIZKOVA, A.; VAVROVA, V.

Water disinfection with peroxides. Cesk. hyg. 10 no.2:100-106 Mr 165.

1. Vojensky ustav hygieny epidemiologie a mikrobiologie, Praha.

HOUSTEK, J.; TOMASOVA, H.; MASOPUST, J.; VAVROVA, V.

Mucuproteins in the digestive tract in pancreatic cystic fibrosis. Cesk. pediat. 19 no.7:585-593 J1'64

1. Ustav vyzkomu vyvoje ditete a katedra fakultni pediatrie fakulty detskeho lekarstvi KU [Karlovy univesity] v Praze (vedouci : prof. dr. J.Houstek, DrSc.); Ustredni biochemicka laborator detske fakultni nemocnice v Praze (vedouci: MUDr. J.Masopust, CSc.)

Distinction caperate of the Program Lite components in intercritical pulsebody floronts in animaton. Sect. 2001. 2001. ISS notable 17. 0.16 to.
1. Verkan nj mater om emisemba nj biospie v Emire (selit to selit or. 0. Seliet, brimi, a Erice vydkom veroje iliate v ani a emilia. Spol. dr. 4. Houston, bibe.).

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859110007-9"

SAMANEK, M.; VAVROVA, V.; ZAJIC, F.; VOKAC, Z.

Diagnosis of disorders of acid-base equilibrium by analysis of expired air. Cesk. pediat. 19 no.8:707-712 Ag '64.

1. Katedra fakultni padiatrie a Ustav vyzkumu vyvyje ditete fakulty detsekho lekarstvi v Praze (vedouci prof. dr. J. Houstek) a Ustav pro choroby obehu krevniho v Praze (reditel prof. dr. J. Brod).

VOKAC, Z.; ZAPLETAL, A.; VAVROVA, V.

Lung nitrogen clearance following acetylcholine aer sol administration in asthmatic children. Cesk. pediat. 20 no.3:207-212 Mr '65

1. Research Institute of Child Development and Second Children's Clinic, Prague.

HOUSTEK, J.; VAVROVA, V.; VOKAC, Z.

Respiratory disturbances in mucoviscidosis. Cesk. pediat. 20 no.3:415-420 Mr 165

1. Second Children's Clinic and Research Institute of Child Development, Faculty of Pediatrics, Prague.

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The Clark stop History While the property and account

HOUSTEK, J. prof. dr (Praha 2, Sokolska 2), VAVROVA, V.

Our experiences with nucoviscidesis. Cas. lek. cesk. 104 nc.S: 201-208 26 F 165.

1. II. detska klinika fakulty detskeho lekarstvi Karlovy University v Praze (prednosta: prof. dr. J. Houstek, DrSc) a Ustav vyzkumu vyvoje ditete fakulty detskeho lekarstvi Karlovy University v Praze, (reditel: prof. dr. J. Houstek, DrSc.).

HOUSTEK, J.; VAVROVA, V.

Frequency and forms of mucoviscidosis in Czechoslovakia. Cesk. pediat. 20 no.3:412-414 Mr '65

1. Second Children's Clinic and Research Institute of Child Development, Faculty of Pediatrics, Praha.

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KVASNICKA, Jiri; KVASNICKOVA, Eva; GROH, Jindrich; DANICKOVA, Zdena; BARTOS, Vladimir; EREEN, Josef. Techn. spoluprace VAVROVA, Eva.

Mineral and water changes during the aging process. I. Methods of determination of minerals in orythrocytes. Normal values. Differences between the normal values in women and men. Sborn. ved. prac. lek. fak. Karlov. Univ. 9 no.1:369-374 164.

Mineral and water charges during the aging process. II. Mineral and water changes in erythrocytes in different age groups. Ibid. 1375-381

1. I. interni klinika (prednosta: prof. MUDr. F. Cernik) Karlovy University v Hradci Kralove.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001859110007-9"

HOUSTEK, J.; PAIM, S.; HLOUSKOVA, Z.; NIKODYMOVA, L.; STIKSA, J.; VAVROVA, V.; VOKAC, Z.

Functional changes in diffuse pulmonary fibrosis. Cesk. pediat. 20 no.3:366-371 Mr 165

1. Second Children's Clinic; Research Institute of Child Development, and Research Institute of Experimental Therapy, Prague.

DAUM, S.; NIKODYMOVA, L.; STIKSA, J.; VOKAC, Z.; VAVROVA, V.; HLOUSKOVA, Z. Technical assistance: MACHANOVA, A.; FLACHA, B.; URBANOVA, A.

Diffusing capacity of the lungs and its components in interstitial pulmonary fibroses during adolescence. Rev. Czech. med. 11 no.3: 180-189 '65.

1. Institute of Postgraduate Medical Training. Chair of Internal Medicine, Prague (Director: Prof. O. Smahel, M.D., D.Sc.), Research Institute of Experimental Therapy (Director: Prof. O. Smahel, M.D., D.Sc.), and Research Institute of Child Development, Prague (Director: Prof. J. Houstek, M.D., D.Sc.).

VAVROVA, V.

The imprint test in screening for mucoviscidosis. Cesk. pediat. 20 no.1:16-22 Ja 165

1. Ustav vyzkumu vyvoje ditete fakulty detskeho lekarstvi Karlovy University v Praze (reditel: prof. dr. J. Houstek, DrSc.).

AND THE PROPERTY OF THE PROPER SIMANKOVA, N.; VAVROVA, V. Genealogical study of families with mucoviscidosis. Cesk. pediat. 18 no.10:942-946 0 163. 1. I detska klinika fakulty detskeho lekarstvi KU v Praze, prednosta prof. dr. J. Svejcar II detska klinika fakulty detskeho lekarstvi KU v Praze a Ustav vyzkumu vyvoje ditete v Praze, reditel prof. dr. J. Houstek. (PANCREATIC CYSTIC FIBROSIS) RESPIRATORY TRACT INFECTIONS) (PEPTIC ULCER) (ALLERGY) (PREGNANCY IN DIABETES) (PREGNANCY COMPL.) (DELIVERY) (CONSANGUINITI) (GENETICS, HUMAN)

A THE STEEL THE PROPERTY OF TH

DAUM, S.; NIKODYMOVA, L.; STIKSA, J.; VOKAC, Z.; VAVROVA, V.; HLOUSKOVA, Z.; Technicka spoluprace: MACHANOVA, A.; PLACHA, B.; UFBANOVA, A.

Diffusion capacity of the lungs and its components in interstitial pulmonary fibrosis in adolescents. Cas. lek. Cesk. 104 no.49/50: 1366-1371 10 D '65.

1. Vyzkumny ustav experimentalni terapie v Praze (reditel prof. dr. O. Smahel, DrSc.) a Ustav vyzkumu vyvoje ditete v Praze (reditel prof. dr. J. Houstek, DrSc.).

HOUSTEK, Josef; VAVROVA, Vera

The incidence of cystic fibrosis of the pancreas in Czechoslovakia. Cesk. pediat. 17 no.5/6:445-451 Je '62.

1. Katedra fakultni pediatrie a Ustav vyzkumu vyvoje ditete fakulty detskeho lekarstvi University Karlovy v Praze, vedouci prof. MUDr. J. Houstek.

(PANCREATIC CYSTIC FIBROSIS statist)

TOMASOVA, Helena; VAVROVA, Vera; VOKAC, Zdenek

A method for the determination of chlorides in the diagnosis of mucoviscidosis. Cesk. pediat. 17 no.4:324-331 Ap '62.

1. II detska klinika fakulty detskeho lekarstvi Karlovy university v Praze, prednosta prof. MUDr. J. Heustek.

(PANCREATIC CYSTIC FIBROSIS diag) (CHLORIDES chem) (SWEAT chem)

89491

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18 3100

E073/E535

AUTHORS:

Jedlička, J., Sedlaček, V. Doctor Engineer, Rejf, J.

and Vavrovič, J., Engineer

TITLE:

Application of Non-soluble Anodes in the Electrolysis

of Nonferrous Metals.

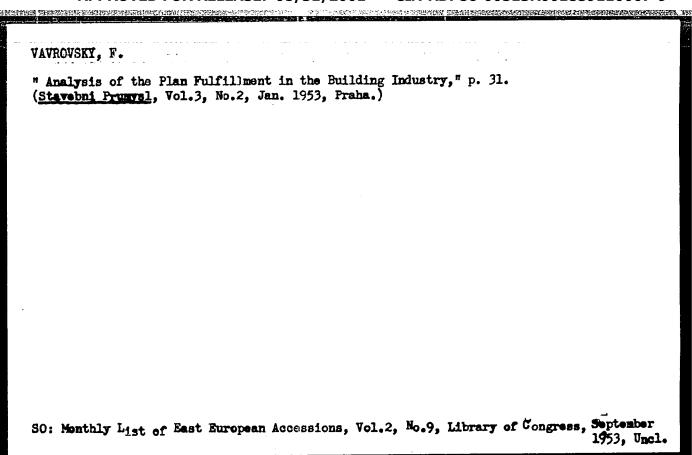
Patent Application Class 40c, 3, PV 3389-60, dated

May 25, 1960

PERIODICAL: Hutnické listy, 1961, No.2, p.139

The anodes are produced from titanium or titanium alloys with a conducting surface layer made of platinum or metals of the platinum group or of metals of the platinum group plus gold or silver. The ratio of the individual metals in the alloys is determined by the intended use of these anodes and also the medium chosen for the particular electrochemical process. By using such anodes, cathode metals of spectral purity were obtained. Compared to current types of anodes, the service life of these is considerably longer.

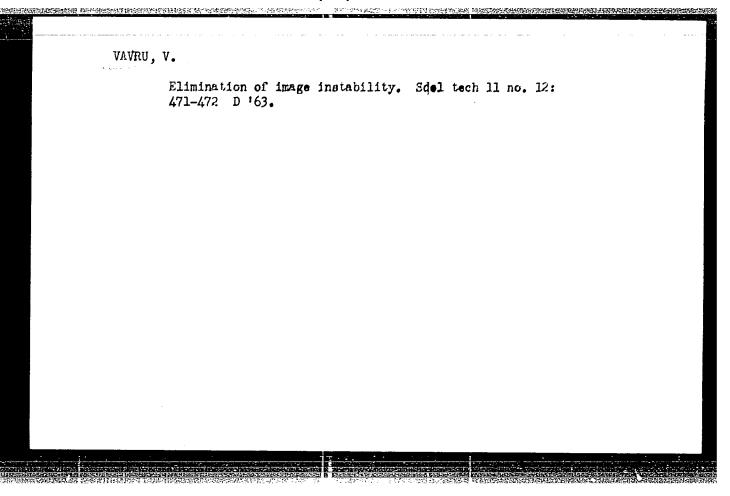
Card 1/1



VAVROVSKY, F.

"Analysis of the Flan of Fulfillment in the Building Industry. (To be contd.),"
p. 5.
(Stavebni Prumysl. Vol.3, No.1, Jan. 1953, Praha.)

SO: Monthly List of East European Accessions, Vol.2, No.9, Library of Congress, September 1953, Unol.

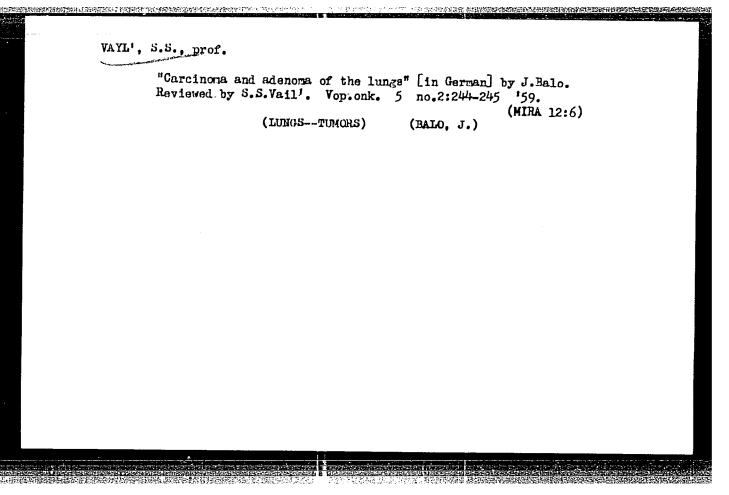


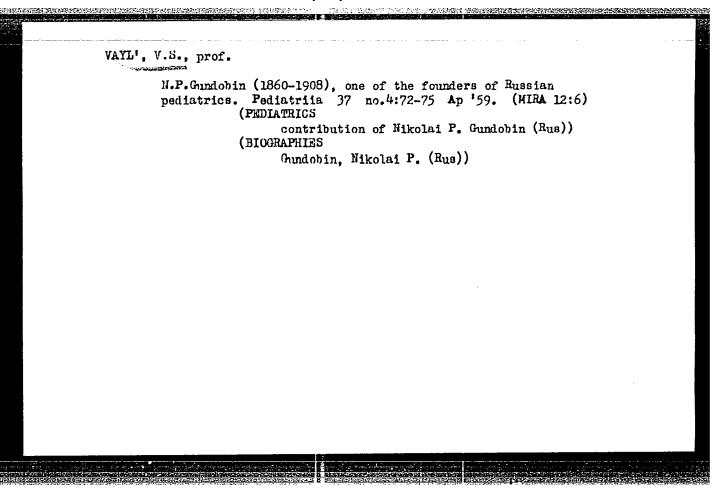
Psychopathic syndromes in traveling. Cesk. psychiat. 61 co.5: 339-344 0 '65.

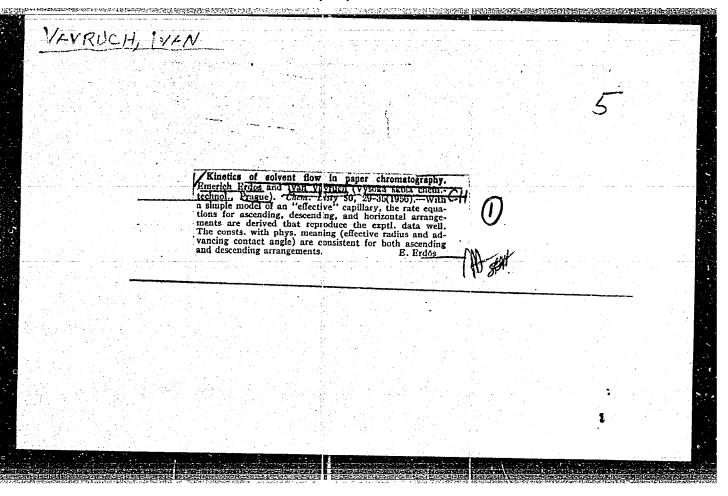
1. Psychiatricka katedra Ustavu detskeho lekarstvi v Praze a Psychiatricka lecebna v Praze 8.

		L 43006-66
	1	ACC NR: AF6031818 SOURCE CODE: CZ/0083/65/000/005/0339/0344
	-	AUTHOR: Janik, A.—Yanik, A.; Vavruch, A.—Vavrukh, A.
23		ORG: [Vavruch] Department of Psychiatry, UDL, Prague (Psychiatricka katedra UDL); [Janik] Mental Hospital, Prague (Psychiatricka lecebna)
		TITIE: Psychopathologic syndromes related to travel [This paper was presented at a regional seminary held in Prague on 17 June 1964.]
		SOURCE: Ceskoslovenska psychiatrie, no. 5, 1965, 339-344
		TOPIC TAGS: psychiatry, psychoneurotic disorder
	į. -	ABSTRACT: Review of the cases of 42 psychiatric patients who were hospitalized during or shortly after trips. Only in 8 men and 1 woman was there a presumed likelihood of more than coincidental relationship between stresses related directly to travel and the occurrence of acute outbreak and exacerbation of psychiatric disease — mostly paranoid schizophrenia. [Based on authors Fing. abst.] [JPRS: 33,500]
		SUB CODE: 06 / SUBM DATE: none / SOV REF: 007 / OTH REF: 002
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CZECH/2433 1951 1951 3: Hlavni 10 11 3: Revieva 1-vi [1952]	enginoers, ginal papers bid in Prague	discussed. In and The Congress.	The control of the co	250 250 259	273 273 273	386	The second secon	395	33%	1 *0* *07 *10	413	# # 23 # 23 # 23	1,24	286 332		359 370 370 370	377
24(2, t) International Polarographic Congress. 1st, Frague, 1951 International Polarographic Congress. 1st, Prague, 1951 Shornfu I. Wezinarodniho polarografického sjerdu. Dil 3: Hawni shornfu I. Mezinarodniho polarografického sjerdu. Vol 3: Reviews Read at the Congress. Praha, Prirodovedecke vyd-vi [1952]	Resp. Ed.; Jiří Koryta, Doctor; Chief Ed. of Fullante Filan Skalník, Doctor; Toch, Ed.; Oldfich Dunka. FURPOSE; The book is intended for chemists, chemical enginaers and physicists. COVERAGE: The book is a collection of reviews and original pap	read at the Intering the regards and intotages. In 1951. Uses of Polarography in organic and intotased. In 1951. The second of the read intotaces, Russian and blochemistry, medicars Read at the Congress, Russian, Reviews Read at the Congress, either German or Smglish translations of sech review are either German or Smglish in the section, Original Papers Read at the Congress, presented. In the section, Original Papers Read at the Congress only those translations in Russian, German, and English which only those translations in Russian, German, and English which	have not been published in volume 1 are presented. The following scientists participated in the opening of the following scientists participated in the opening of the Collowing Professor Wilcor Kemula, Doan of the Facelly Congress; Professor Jaroslaw Herowsky, Chairman of the Congress; and Professor Jaroslaw Herowsky, Chairman of the Congress; and Professor Jaroslaw Participated, chairman of the Congress; References follow each paper.	Transfer J. Apparatus for Genillographic Polarography [Russian Translation]	Horrowalty J. Oscillographic Polarography [Russian Translation] [English Translation]	Brileta, R. Kinetics of Electrode Processes in Polato-graphy		Arrad, H.T. Polarographic Study of Basic Trivalent Chromium Salt Systems	Iron with Saccharose	Dratowsky, M., and MEbart, Effect of Gelatin and Thymology- or-Carbodic Deposition of Cations at a Dropping Mercury Electrode Electrode (Messan Translation)	Kuta, 3, Study of Hydrogen Overvoltage with a Mercury Electrode With Controlled Dropping Time	Dyogias, J. Effect of Capillary Constants on the Maximum of Coyest Prinslation [Russian Translation] [German Translation]	Varrich, I. Attempt to Classify Refined Sugars by the Politrographic Method	[Russian Translation]	CRIGINAL PAPERS READ AT THE CONGRESS READ AT THE CONGRESS FALCHER, M., and A. TOCKRIEID. Validity of the Nemat.	Equation in the Designion of the Polaregraphic wave Equa- Vickit.A.A. Polaregraphy in Concentrated Sulfuric Acid Reseasen Translation [Exellat Translation]	Valenta, P. Study of Current Discontinuity Appearing on a Calosel Byan Electrode







VAVRUCH, 1.

PHASE I BOOK EXPLOITATION

CZECH/5380

- Pouchly, Julius, Engineer, Candidate of Chemical Sciences, and Ivan Vavruch, Docent, Doctor of Natural Sciences.
- Fysikální chemie koloidních soustav (Physical Chemistry of Colloidal Systems) Praha, SNTL, 1960. 334 p. 2,200 copies printed.
- Reviewers: Jiří Mýl, Docent, Engineer, Doctor, and Alexander Tkáč, Docent, Engineer, Doctor; Resp. Ed.: Marie Školová; Chief Ed.: Adolf Balada; Tech. Ed.: Ludvík Charvát.
- PURPOSE: This textbook is intended for students specializing in chemical technology at higher institutions of learning; for scientific and technical workers in all branches of the chemical industry and in chemical research; for workers in biology, agriculture, forestry, pharmacy, and medicine; for teachers in special schools; and for those working in the natural sciences.
- COVERAGE: The book, the first in the Czech language on colloidal chemistry, was authorized as a textbook for higher institutions of

Card 1/28.

Physical Chemistry (Cont.)

CZECH/5380

learning specializing in chemical technology by decree of the Ministerstvo skolství a kultury (Ministry of Education and Culture) dated April 4, 1959. The book deals with the basic concepts of colloidal chemistry; the classification of colloidal systems; the kinetic, optical, and mechanical properties of colloids; surface and interphase energies; surface films of insoluble substances; adsorption on a mobile boundary; adsorption on a solid surface; the electrical properties of phase boundaries; ion exchange; lyosols and suspensions; emulsions and foams; aerosols; micelle colloids; high-molecular substances and their solutions; and gels. The authors have attempted to present the material in the light of the most recent views and research in colloidal chemistry, and to demonstrate the laws and regularities of colloidal chemistry as following from several fundamental principles known from the theory of the thermal motion of matter and intermolecular forces, and from the physical chemistry of phase boundaries and the thermodynamics of multicomponent systems. The presentation presupposes a knowledge of general physical chemistry on the part of the reader. The material corresponding to course work at higher schools of chemical technology appears in large

Card 2/28

Physical Chemistry (Cont.)

CZECH/5380

print, while the material intended for deeper study is in smaller type. The microphotos in the book were made with a TTC instrument supplied by the Ministerstvo chemického průmyslu (Ministry of the Chemical Industry) for which the authors thank Professor Stanislav Veselý; the Debyegram of corundum was supplied by Engineer Jaroslav Bauer of the VSCHT (Higher School of Chemical Technology) in Progres. References accompany each chapter. A generate nology) in Prague. References accompany each chapter. A separate bibliography containing 30 references (15 English, 5 German, 5 Soviet, and 5 Czech) appears at the end of the book.

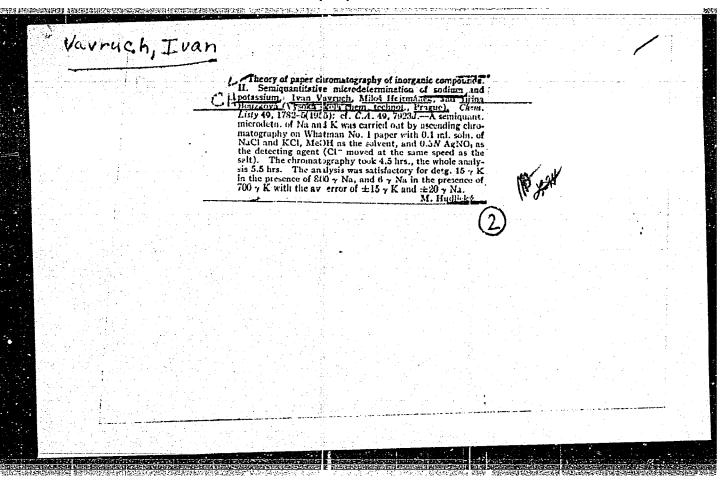
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Preface



VAVRUCH, I. Czechoslovakia CA:47:11780

"Colloidal precipitates obtained from molasses by alcohol."

Listy Cukrovar. 66, 141-3(1949-50); Sugar Ind. Abstr. 12, 91(1950)

VAVRUCH, I.

Czechoslovakia

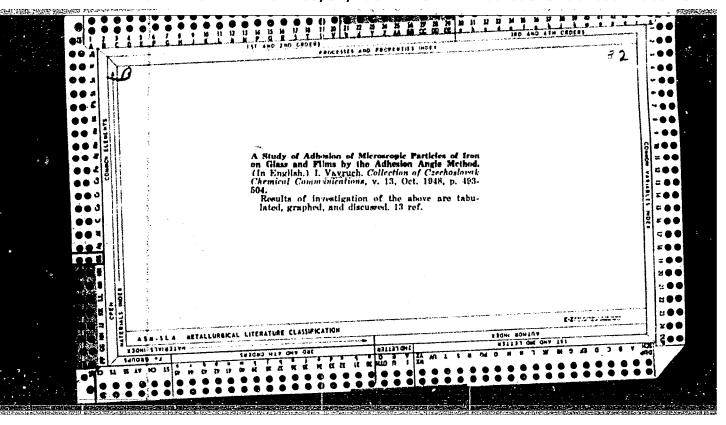
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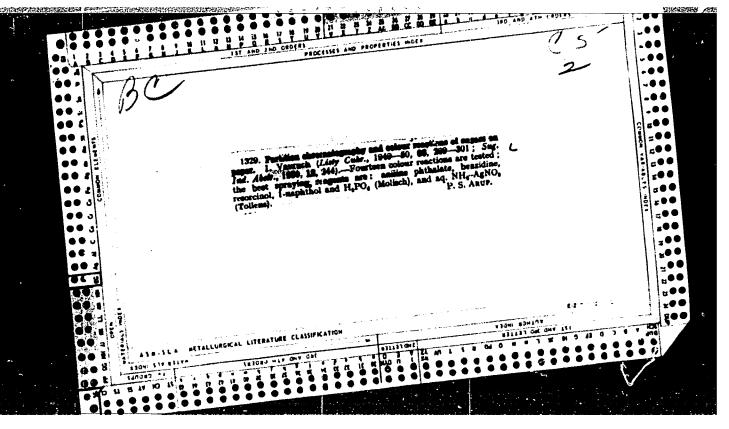
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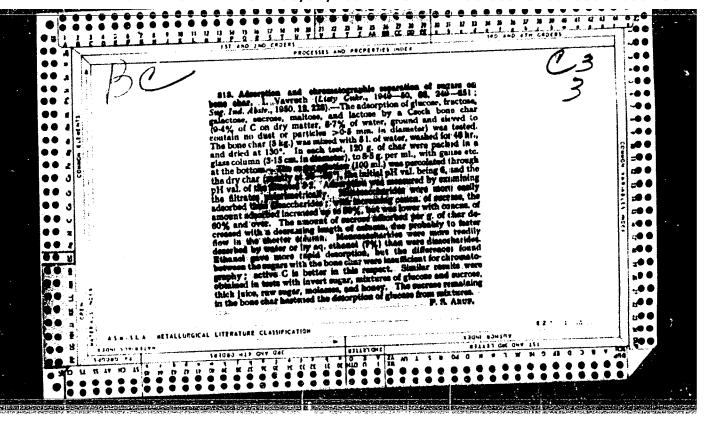
"Control of defecation and second saturation by the continuous measurement of pH and electrical conductivity."

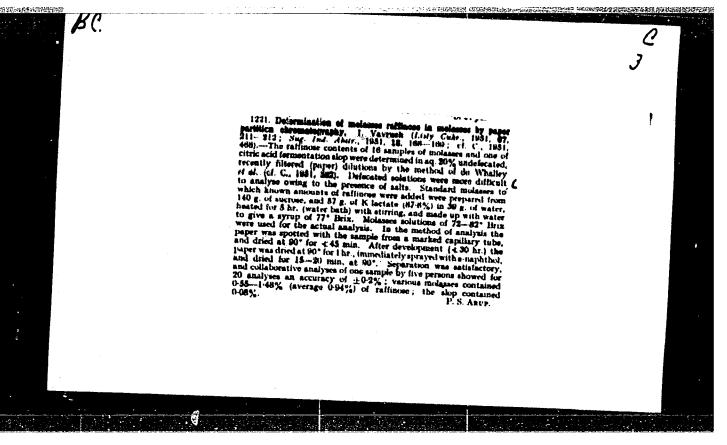
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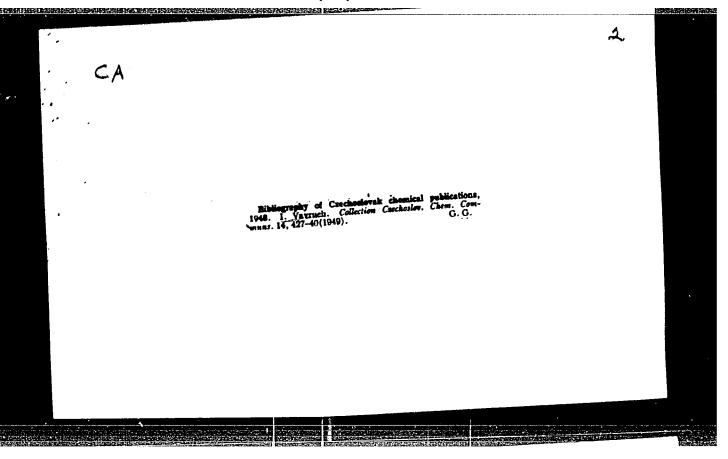
VAVRUCH, I.	Czech	СА: 47:10964
"Physical chemistry of the sur	face of aqueous solutions of su	erose. II."
Listy Cukrovar. 66, 73 (1949-	50; Sugar Ind. Abstr. 12, 17-10	3 (1950)

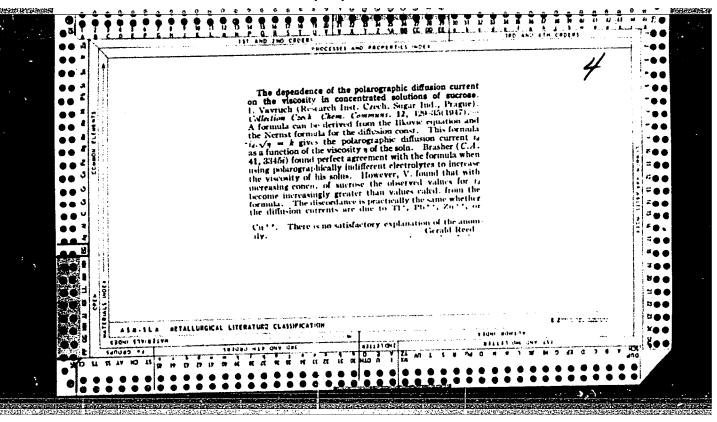


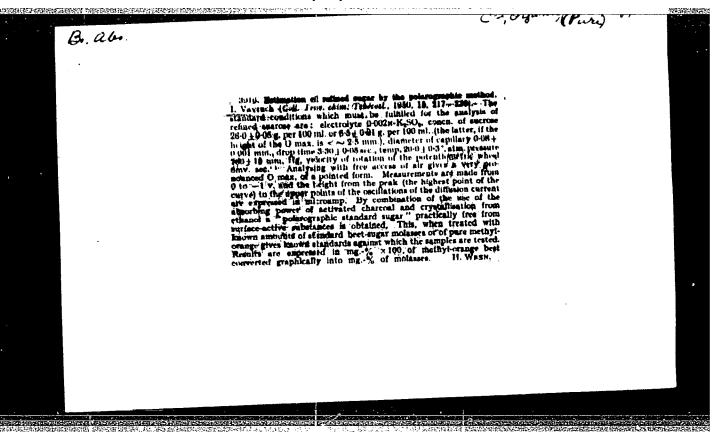


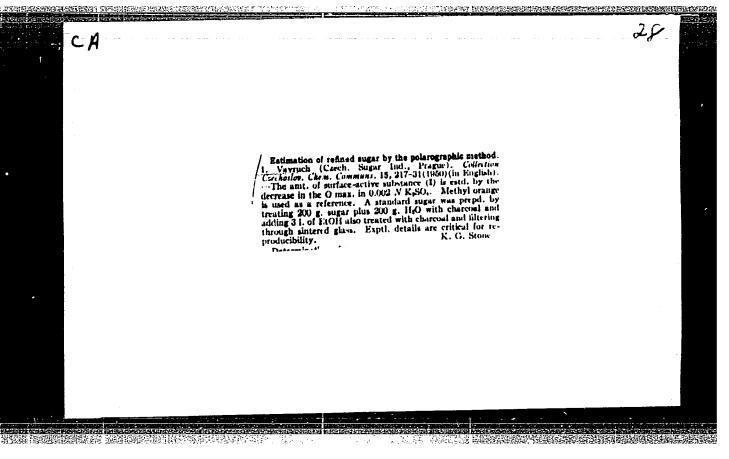




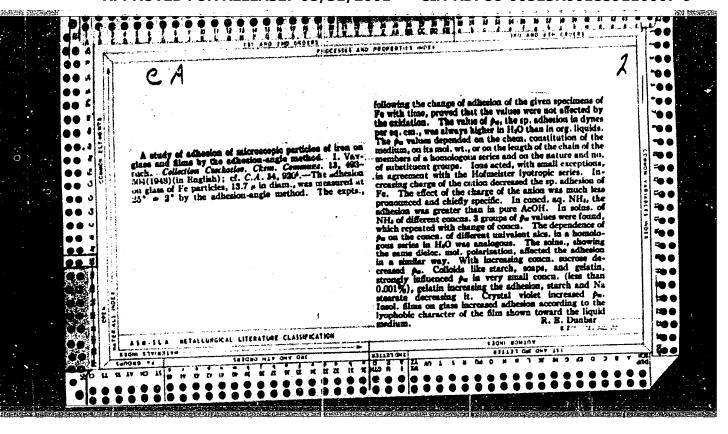


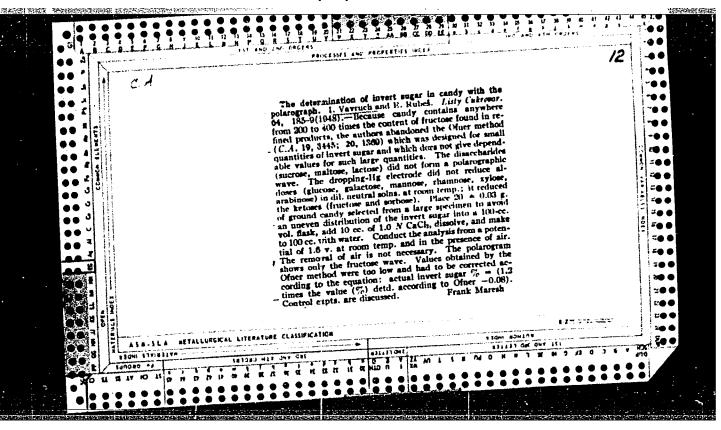


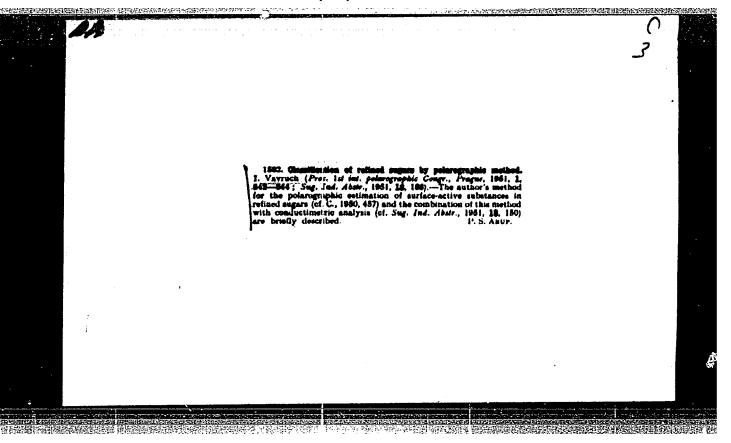


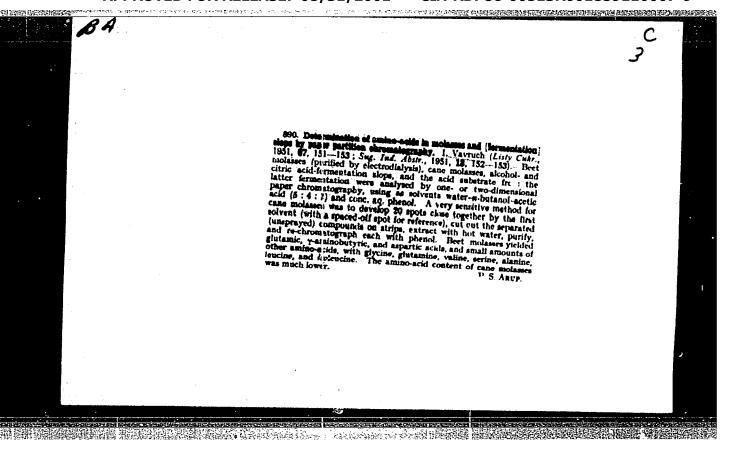


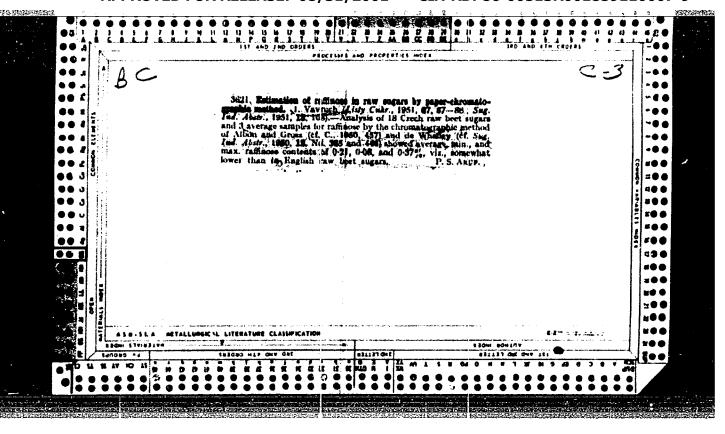
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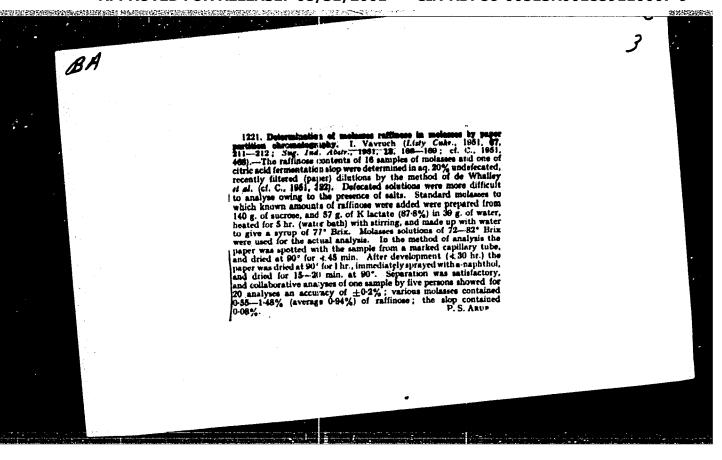


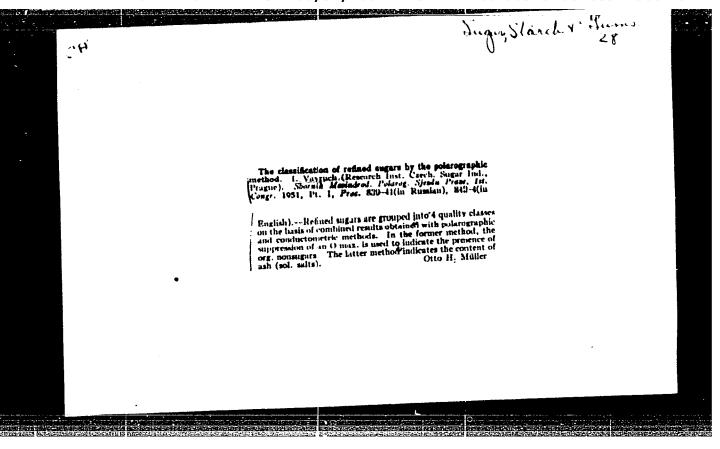












Kinetics of limited swelling of ion exchangers. Shor chem tech no.3, part 1:227-244 159. 1. Katedra fyzikalni chemie, Vysoka skola chemicko-technologocka, Praha.

5/081/62/000/023/021/120 B156/B186

AUTHORS: Vavruch, Ivan, Kohoutová, Hana

TITLE: Conductivity in biologically important heterogeneous systems.

Part II. Steric effects in gelatinous model systems

PERIODICAL: Referativnyy zhurnel. Khimiya, no. 23, 1962, 125, abstract 23B921 (Sb. Vysoké školy chem.-technol. v Praze. Potravin. technol., v. 5, no. 1, 1961, 15 - 24 [Czech.; summaries in Russ. and Eng.])

TEXT: The electrical conductivity of a model of a dispersed system with a dispersion medium (agar-agar gel containing 0.01 - 0.5 N solutions of KCl) and with a dispersed phase (glass balls and cylinders and silon fibres oriented parallel or perpendicular to the direction of the electrical field) have been investigated. The steric effects in systems of this type depend greatly on the geometrical shape, distribution and orientation of the dispersed phase particles. They are almost independent of the electrical conductivity of the gelatinous dispersion medium. For Report I, see RZhKhim, 1962, 7522. [Abstracter's note: Complete translation.]

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VAVRUCH, Ivan

CZECHCSLCVAKIA/Physical Chemistry. Surface Phenomena. Adsorption. Chromatography. Ion Exchange.

B-13

Abs Jour: Ref Zhur-Khim., No 13, 1958, 42757.

the work Author : Bouzkova Jirina, Hejimanek Milos, Vavruch Ivan.

Inst

: Contribution to the Theory of Paper Chromatography Title

of Inorganic Substances. III. Quantitative Studies

of Frontal and Elution Chromatograms.

Orig Pub: Chem. listy, 1957, 51, No 1, 36-46; Sb. chekhosl. khim. rabot, 1957, 22, No 4, 1219-1231.

Abstract: Strips of Whatman No 1 paper were immersed, in frontal

analysis, in a solution of NaCl or KCl in C H CH, after the front of the solution had progressed over a distance 1 the strips were cut into 1 cm long

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Abs Jour: Ref Zhur-Khim., No 13, 1958, 42757.

pieces and the amount of salt contained therein was determined. The distance of the inflexion point of the curve of salt distribution over the strip, measured from the starting line, is h=A. 1, where A is a constant. In elution analysis a strip of paper uniformly impregnated with the solution, over a portion of l^2 in length, is eluted with a solvent. The curves of salt distribution over the strip show maxima, with $l(max) = \Lambda \cdot l + l^0/2$. Constants Λ , calculated from frontal elution analyses, coincide and are equal to 0.23-0.25 for KCl, and 0.46-0.52 for NaCl. By static measurements of adsorption of salts at the pulped paper, values of Λ of 0.241 and 0.547, respectively, were obtained. The performed

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Chromatography. Icn Exchange.

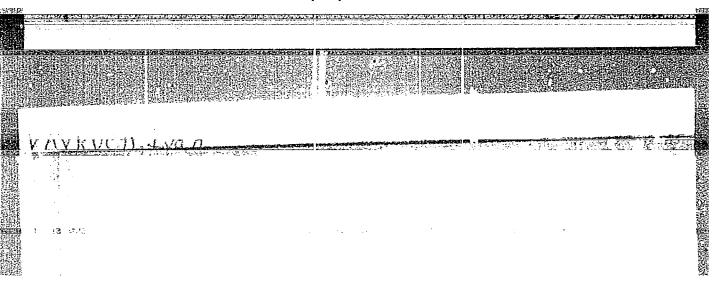
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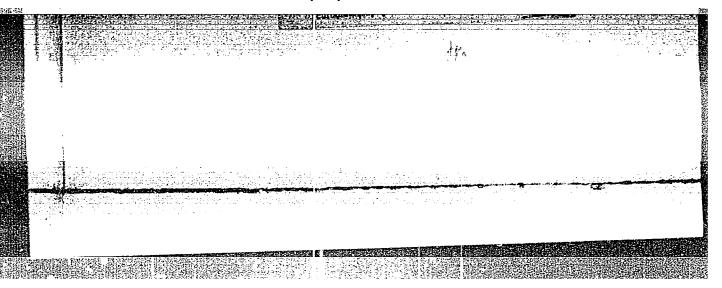
Abs Jour: Ref Zhur-Khim., No 13, 1958, 42757.

investigations show that chromatography on paper and in a column are governed by the same laws. The authors propose to utilize the constant h, in lieu of R/, for identification of substances. Communication II'see RZhKhim, 1956, 68609.

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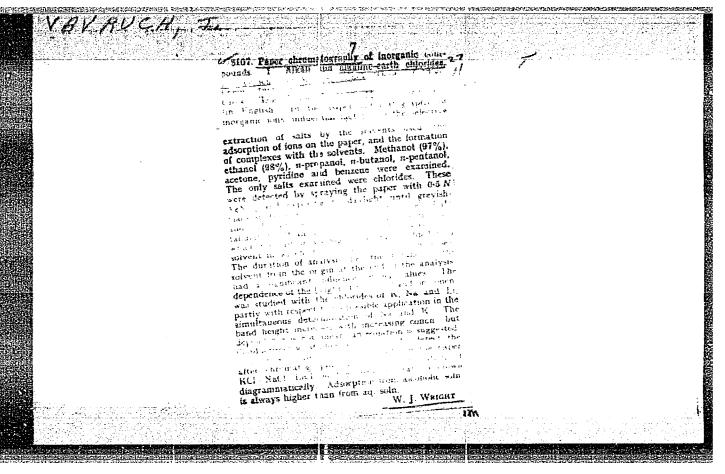
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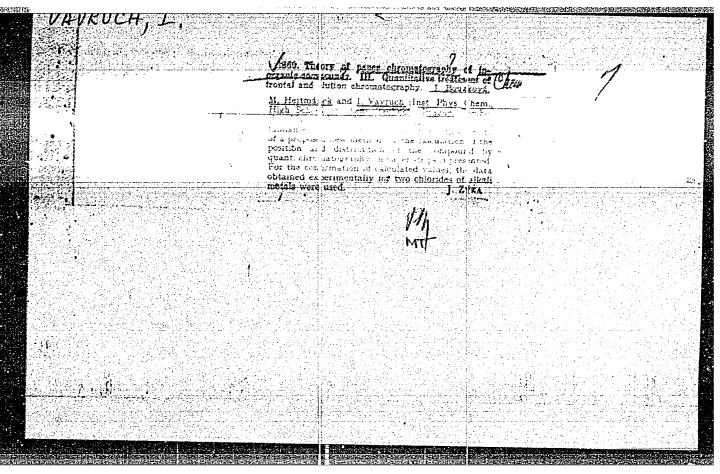




Contribution to the theory of paperchromatography of inorganic compounds. III. Quantitative treatment of the frontal and elution chromatographies. p. 36. (Chemicke Listy, Praha. Vol. 51, no. 1, Jan., 1957.)

SO: Monthly List of East European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.





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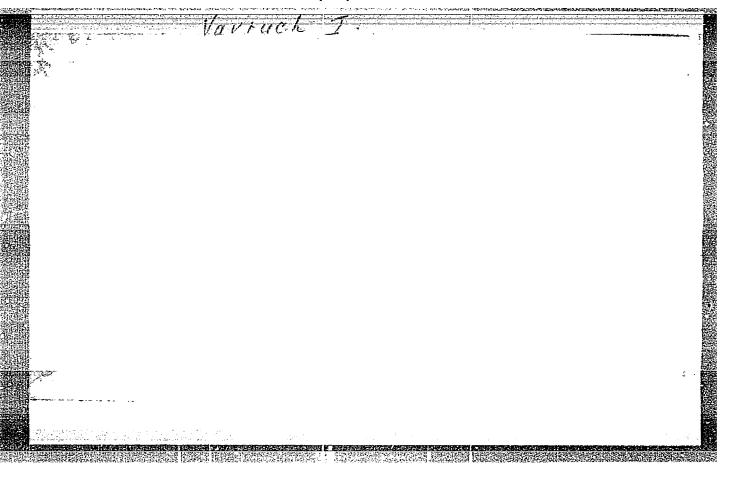
VAVRUCH, I. Kinetics of solvent flow in paper chromatography. p. 29. Vol. 50, no. 1, Jan. 1956. CHEMICKE LISTY. Praha, Czechoslovakia.

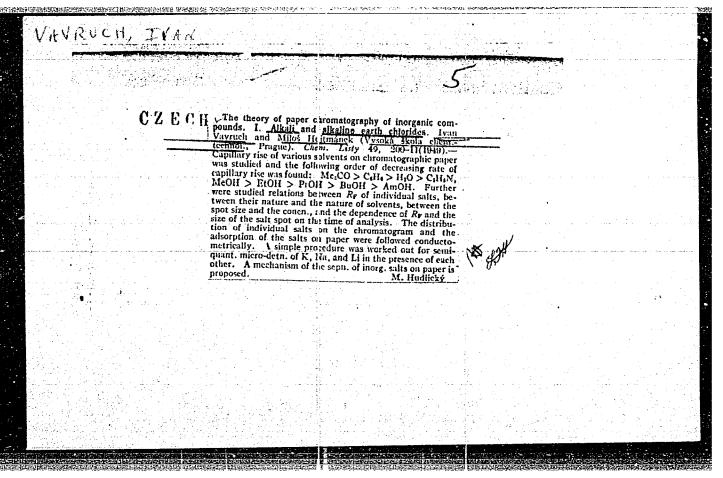
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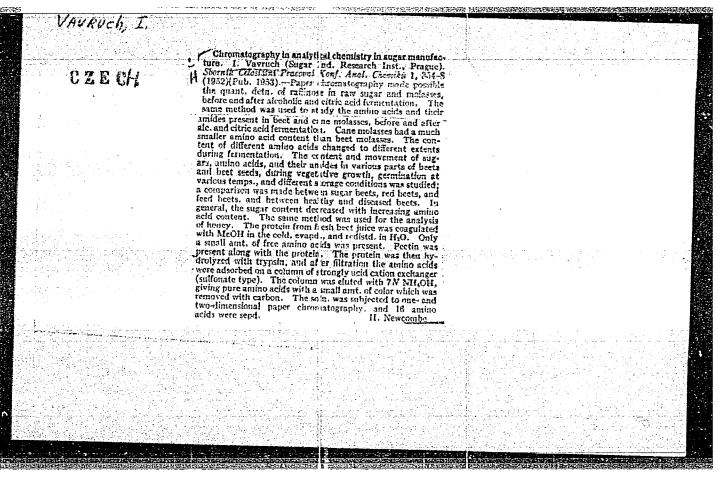
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Uso of chromatography in analysis of foodstuffs. p. 207. Vol 9, no. 3, Mar. 1955. Chemicke Zvesti.

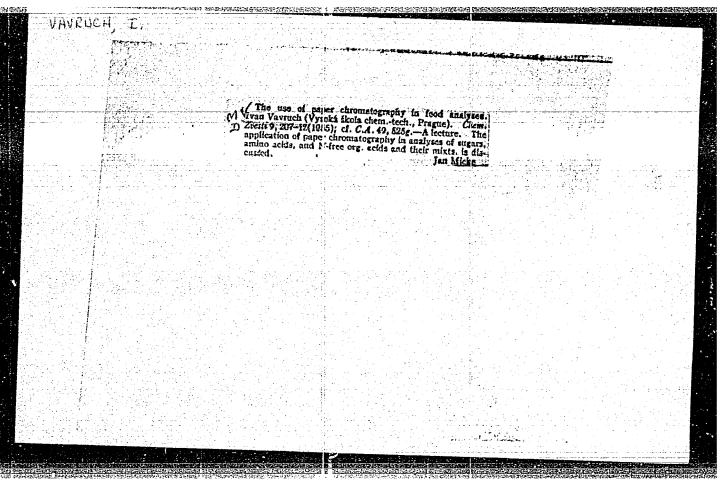
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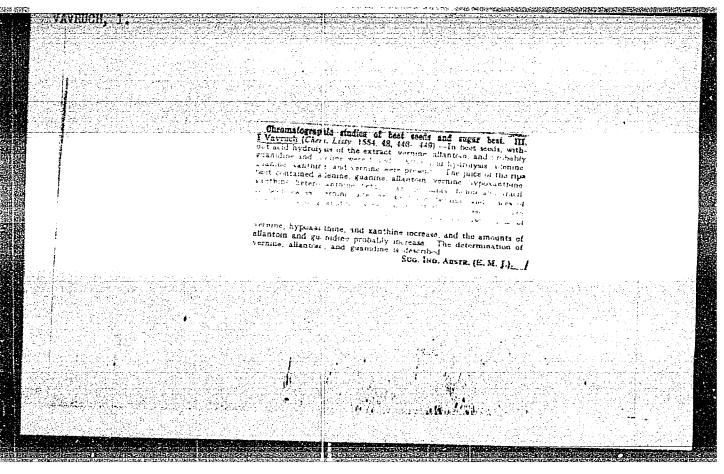


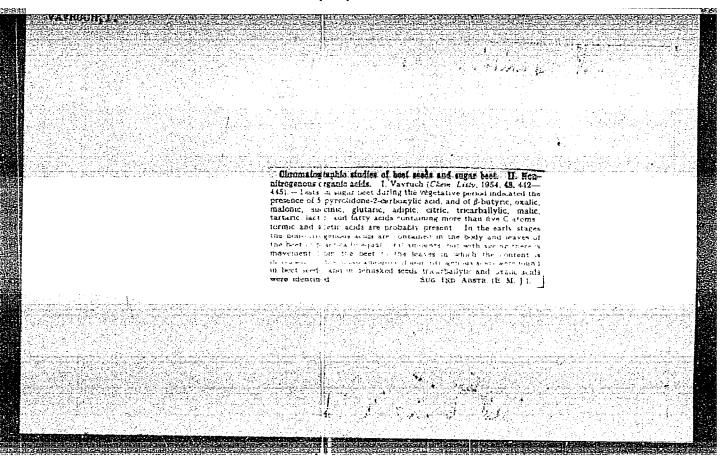




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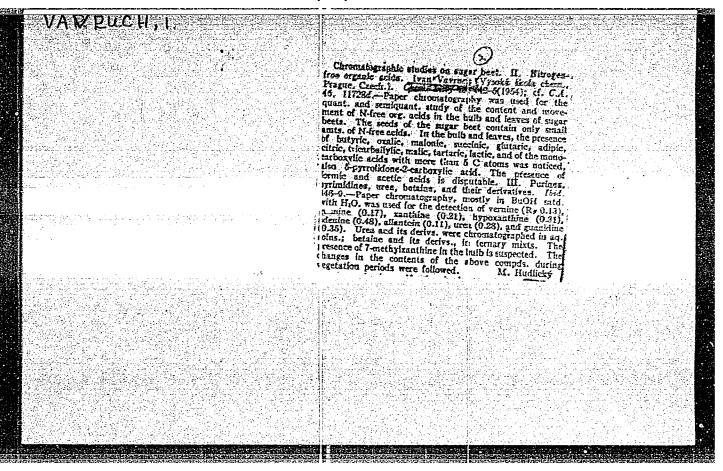


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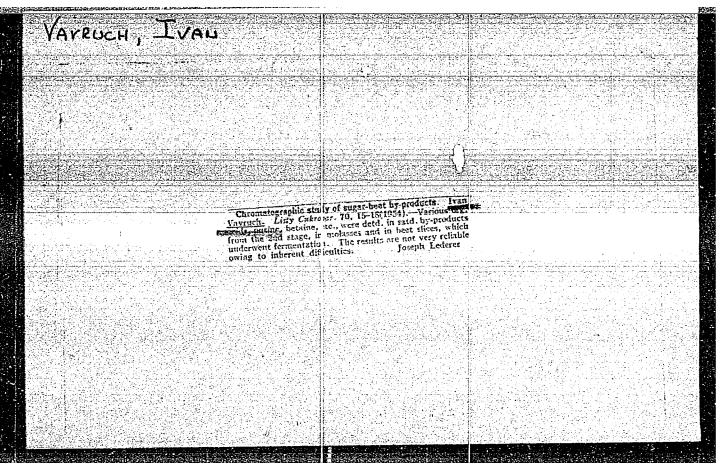
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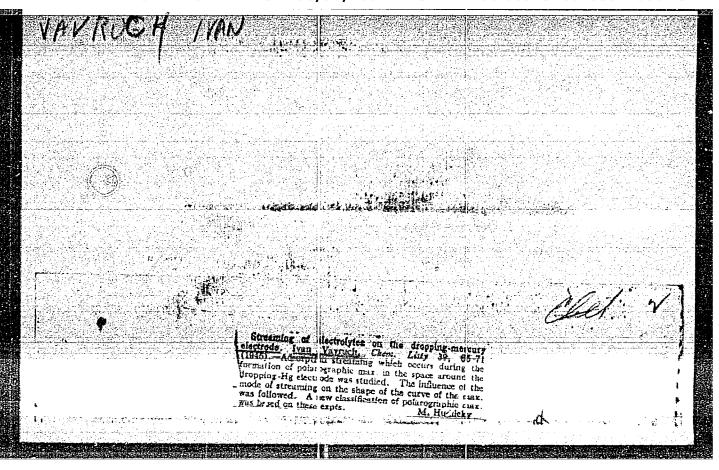
"Chromatographic Study of the Sugar Eeet and Its Seeds. II. Nitrogen-free Organic Acids. III. Purires, Pyrimidines, Urea, Betaines, and their Derivatives", P. 442, (CHEMICKE LISTY, Vol. 48, No. 3, 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EFAL), IC, Vol. 4, No. 1, Jan. 1955, Uncl.



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